S. Carlotte and the second second	Application No.		Applicant(s)		
Notice of Allowability	09/688,733		SAITO, YOSHIMA	SA	
House of Allowability	Examiner		Art Unit	T. /	
	Thoi V Duong	· · · · ·	2871	pu	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOS) or other appropriate co RIGHTS. This applicatio	SED in this app	plication. If not inclu-	ided	
1. ☐ This communication is responsive to the Appeal Brief filed				• .	
2. ☑ The allowed claim(s) is/are <u>3,6,7,9,10,12 and 13</u> .			**		
3. The drawings filed on 16 October 2000 are accepted by the	ne Examiner.		•		
 4. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents hav 2. Certified copies of the priority documents hav 3. Copies of the certified copies of the priority do 	re been received. re been received in Appli	lication No	national stage applic	eation from the	
International Bureau (PCT Rule 17.2(a)).				duon non an	
* Certified copies not received:	- 11	•			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication t MENT of this application	to file a reply o	complying with the re	equirements:	
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv 	nitted. Note the attached es reason(s) why the or	J EXAMINER' ath or declara	S AMENDMENT or I	NOTICE OF	
6. CORRECTED DRAWINGS (as "replacement sheets") mu (a) including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner Paper No./Mail Date	son's Patent Drawing Re - 's Amendment / Comme	ent or in the O	office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in	the header according to 3	37 CFR 1.121(d	d).	· ·	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL M FOR THE DEPOSIT OF	IATERIAL m F BIOLOGIC/	iust be submitted. AL MATERIAL.	Note the	
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 □ Notice	of Informal P:	atent Application (PT	CO 4E0)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		ew Summary (U-152)	
 Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 	Paper	Paper No./Mail Date			
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examin 9.	ner's Statemer	nt of Reasons for All	owance	
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DETAILED ACTION

1. This office action is in response to the Appeal Brief filed February 27, 2004.

Accordingly, claims 3, 6, 7, 9, 10, 12 and 13 were amended, and claims 1, 2, 4, 5, 8, 11 and 14 were cancelled. Currently, claims 3, 6, 7, 9, 10, 12 and 13 are pending in this application.

Allowable Subject Matter

2. Claims 3, 6, 7, 9, 10, 12 and 13 are allowed.

The following is an examiner's statement of reasons for allowance: none of the prior art of record fairly suggests or shows all of the limitations as claimed. Specifically,

None of the prior art of record discloses, in combination with other limitations as claimed, a liquid crystal display (as well as a method of manufacturing the same) comprising each of a plurality of pixel regions (or dot regions) having a first alignment direction for a front alignment film portion of said pixel (or dot) and a second alignment direction for a back alignment film portion of said pixel (or dot) with no other alignment directions for said pixel (or dot),

wherein, *re claims 3, 6, 9 and 12*, four closely arranged pixel regions (or dot regions) each have two different alignment directions for the respective front and back alignment films and none of the four dot regions share two common alignment directions; or

wherein, re claims 7 and 13, adjacent pixels do not share two common alignment directions; or

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wherein, re claim 10, said liquid crystal alignment directions are in opposite directions for each of the alignment films at respective regions of the alignment films corresponding to adjacent dots.

The most relevant references, USPN 6,097,463 of Chen and USPN 5,657,105 of McCartney, fail to disclose or suggest that adjacent pixels (or dots) do not share two common alignment directions. The Chen's reference is merely directed to a liquid crystal display device in which an in-pixel divided alignment structure is achieved as shown in Fig. 8A, wherein each of pixels 141 was divided into two regions so that adjacent divided regions had opposite rubbing directions (arrow G and H). Meanwhile, as shown in Fig. 1, McCartney discloses a multi-domain liquid crystal display comprising a plurality of dots R, G, B, each dot has two alignment directions; however, adjacent dots between rows 10, 20 and 30 share two common alignment directions.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thoi V. Duong whose telephone number is (571) 272-2292. The examiner can normally be reached on Monday-Friday from 8:30 am to 4:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim, can be reached at (571) 272-2293.

Thoi Duong

05/07/2004

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